

**6.2.7 Characteristics of New and Stock Generating Capacities, by Plant Type**

	2006	2015	2006 Installed Capital Costs of a Typical Power Plant			
	Heat Rate	Heat Rate	Price	Size	Cost	
<u>New Plant Type</u>	<u>(Btu/kWh)</u>	<u>(Btu/kWh)</u>	<u>(\$2006 thousand per MW)</u>	<u>(MW)</u>	<u>(\$2006 million)</u>	
Pulverized Coal	9,200	9,069	1,534	600	920	
Coal-Gasification Comb. Cycle	8,765	8,389	1,773	550	975	
Combined Cycle	7,196	7,064	703	250	176	
Advanced Combined-Cycle	6,752	6,612	706	400	282	
Combustion Turbine	10,833	10,675	500	160	80	
Advanced Combustion Turbine	9,289	9,012	473	230	109	
Fuel Cell	7,930	6,960	5,374	10	54	
Wind	10,022	10,280	1,434	50	72	
Advanced Nuclear	10,400	10,400	2,475	1,350	3,341	
<u>Stock Plant Type</u>	<u>2006</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>
Fossil Fuel Steam Heat Rate (Btu/kWh)	10,542	10,455	10,311	10,181	10,024	9,825
Nuclear Energy Heat Rate (Btu/kWh)	10,517	10,421	10,421	10,421	10,421	10,421

Note(s): This table provides comparisons of electric generating plants. Plant use of electricity is included; however, transmission and distribution losses of the electric grid are excluded.

Source(s): EIA, Annual Energy Outlook 2008, Mar. 2008, Table A2, p. 117-119, and Table A8, p. 131-132. EIA, Assumptions to the AEO 2008, June 2008, Table 48, p. 89 for fossil fuel heat rates, Table 39, p. 77 for other generator data.